



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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## 2019 Annual Reports

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**Suzanne Steab** <suzannesteab@utah.gov>

Fri, Jan 10, 2020 at 2:21 PM

To: "John A. Gefferth" <JGefferth@barr.com>, John Kit Pappas <jpappas@broncoutah.com>

Cc: "Christensen, Steve" <stevechristensen@utah.gov>, OGMCOAL DNR <ogmcoal@utah.gov>, Priscilla Burton <priscillaburton@utah.gov>, Todd Miller <toddmiller@utah.gov>

Attached, please find electronic Annual Report documents. When completed, it must be submitted to the Division *electronically* either by emailing the form with the associated report documents, uploading on the Division ePermitting site or by saving the form to a CD/flash drive.

Please be sure to submit raptor and archeology report marked as confidential and in a separate folder marked confidential.

Please submit the completed form by March 31, 2020.

Thank you!

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Suzanne Steab, Engineering Technician II

Division of Oil, Gas & Mining

[1594 West North Temple, Suite 1210](#)

[Salt Lake City, Utah 84114-5801](#)

(801) 538-5265

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### 2 attachments



**Hidden Valley.pdf**

857K



**Emery Deep.pdf**

275K

# 2019 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2020.

## GENERAL INFORMATION

Company Name	<input type="text" value="Bronco Utah Operations, LLC"/>	Mine Name	<input type="text" value="Emery Deep Mine"/>
Permit Number	<input type="text" value="C/015/0015"/>	Permit Expiration Date	<input type="text"/>
Operator Name	<input type="text"/>	Phone Number	<input type="text"/>
Mailing Address	<input type="text"/>	Email	<input type="text"/>
City	<input type="text"/>		
State	<input type="text"/>	Zip Code	<input type="text"/>

## DOGMM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	<input type="text"/>
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	<input type="text"/>
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	<input type="text"/>
Other:	<input type="text"/>	<input type="text"/>

## OPERATOR COMMENTS

## REVIEWER COMMENTS

Met Requirements  Did Not Meet Requirements

# COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

**Title: WATER MONITORING**

**Objective:** Provide an annual water monitoring summary to be submitted by March 31st.

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Annual Report

**Citation:** Chapter VI, page VI-28

**OPERATOR COMMENTS****REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

**Title: INVESTIGATIVE STUDY INTO RECLAMATION PRACTICE**

**Objective:** To develop an enhanced reclamation plan, based on an evaluation of soil chemistry and vegetation establishment on previous reclaimed sites. (results located in Chapter 11, Appendix 1). This is a four-phase project. Phase I involves reporting on the investigation of past reclamation sites and practices at the mine.

Phase II requires to lower the profile of pond 6 stockpiles, reseed and keep wildlife off piles; reclaim ponds 4 & 5, and pond 1 subsoil pile; adjust final reclamation plans to incorporate beneficial treatments observed such as discing in 1 T/ac straw mulch; modify the seed mix to include only salt tolerant species and allow for a higher percentage of shrubs and forbs; adjust the reference areas to eliminate duplication.

Phase III requires that the applied techniques be evaluated qualitatively annually and quantitatively between the 4th and 6th year. These evaluations will be correlated to precipitation data.

Phase IV requires the permittee to revise the MRP to include the best technology for final revegetation.

**Frequency:** Ongoing

**Status:** Phase I has been met. Phase II has been met (2014).

**Reports:** Qualitative report annually, and quantitative report between 4th and 6th year.

**Citation:** Chapter III, page 4a, and Chapter III, Appendix 1

**OPERATOR COMMENTS**

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

**Title: SUBSIDENCE MONITORING- MONTHLY INSPECTIONS**

**Objective:** Inspect the area outlined on Plate V-5 as full extraction areas when pillar splitting begins.

**Frequency:** Monthly until there is no significant movement (+/- 0.5 feet)

**Status:** Ongoing

**Reports:** Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

**Citation:** Chapter V, Section V-B.2 (Subsidence Survey and Monitoring Plan) Page 38

**OPERATOR COMMENTS**

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

**Title: SUBSIDENCE MONITORING- POINTS OVER PARTIAL PILLAR SECTIONS**

**Objective:** If monitoring points over partial pillar sections demonstrate significant movement (+/- 0.5 feet), the Division shall be notified of the differences and the point resurveyed at 6 month intervals until no significant movement (+/- 0.5 feet). Points that no longer demonstrate movement will be surveyed annually unless massive caving occurs.

**Frequency:** As needed

**Status:** Ongoing

**Reports:** Track in annual report to ensure compliance. Resubmittal of reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

**Citation:** Chapter V, Section V-B.2 (Subsidence Survey and Monitoring Plan) Page 37

**OPERATOR COMMENTS**

REVIEWER COMMENTS

Met Requirements

Did Not Meet Requirements

**Title: SUBSIDENCE MONITORING- REPORT**

**Objective:** Subsidence monitoring report containing: 1.) Mine maps showing where pillars have been pulled. 2.) Maps showing surface property ownership. 3.) Location of subsidence monitoring stations. 4.) Photographs of the subsidence monitoring points above the full extraction areas outlined on Plate V-5 to record pre and post subsidence. 5.) The differential level and horizontal survey summary. 6.) A narrative explaining any "significant movement" and mitigative measures.

**Frequency:** As needed, report submitted to the Division annually

**Status:** Ongoing

**Reports:** Track in Annual Report to ensure compliance.

**Citation:** MRP, Chapter V, Section V-B.2 (Subsidence Survey and Monitoring Plan) Page 38

**OPERATOR COMMENTS**

REVIEWER COMMENTS

Met Requirements

Did Not Meet Requirements

**Title: SUBSIDENCE MONITORING- PREMINING ELEVATIONS AND GRADIENTS**

**Objective:** Establish pre-mining elevations and gradients of any irrigation ditches and pond embankments within the angle of draw. The pre-subsidence survey will be compiled or updated 6 months prior to full extraction.

**Frequency:** As needed.

**Status:** Ongoing

**Reports:** Track in annual report to ensure compliance. Division engineer will review reports annually to ensure compliance.

**Citation:** MRP, Chapter V, Section V-B.2 (Subsidence Survey and Monitoring Plan) Page 38

**OPERATOR COMMENTS**

REVIEWER COMMENTS

Met Requirements

Did Not Meet Requirements



# FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

## **Title: SOIL SAMPLING AT 4TH EAST PORTAL**

**Objective:** Verify soil characteristics prior to final reclamation grading through sampling and analysis for pH, SAR, and EC with particular attention to those areas that were treated with dust suppressant.

**Frequency:** At final reclamation.

**Status:** At final reclamation.

**Reports:** report findings to Division.

**Citation:** Chapter III part C.1, page 11 and Appendix X, part C-3, page 24

## **Title: SOIL SAMPLING OF POND NO. 4 AND POND NO. 9**

**Objective:** To determine if evaporative salts have accumulated to a toxic level.

**Frequency:** at final reclamation

**Status:** at final reclamation.

**Reports:** report to the Division.

**Citation:** Chapter III, part C-1, page 12

## **Title: SOIL TESTING OF RECLAIMED SITE BEFORE SEEDING**

**Objective:** To verify the suitability of the growth media.

**Frequency:** At reclamation.

**Status:** At reclamation, before seeding.

**Reports:** report to Division.

**Citation:** Chapter VIII, part C-4, page 21, paragraph 1

## **Title: PERMANENT WASTE DISPOSAL SITE SUBSTITUTE TOPSOIL AND SUBSOIL COVER**

**Objective:** To determine how to segregate best available material within the disturbed area for use as substitute topsoil from less desirable material to be used as cover over the coal mine waste permanent disposal site.

**Frequency:** Prior to construction of permanent disposal site, resample of the gravel pit site for topsoil substitute quality and quantity, and cover material quality. The site will be sampled on one sample per acre grid, with analysis on one foot

**Status:** Future Commitment

**Reports:** Report to Division.

**Citation:** Chap VII, Appendix VII-2, page 2

## **Title: IDENTIFY CHEMICAL CHARACTERISTICS OF COAL MINE WASTE PRIOR TO FINAL BURIAL OR TREATMENT**

**Objective:** In accordance with R645-301-731.300, determine chemical characteristics of coal mine waste in existing temporary coal mine waste stockpile. Commitment to core temporary pile in at least 5 locations and analyze waste in 5 ft. intervals for pH, EC, SAR, Acid Base Accounting, Se, B, and texture.

**Frequency:** One year prior to moving the waste

**Status:** Future Commitment

**Reports:** Report to Division.

**Citation:** Chapter III, page 13

# REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

# MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual Subsidence Map		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**REVIEWER COMMENTS**     Met Requirements                       Did Not Meet Requirements